Science & technology



PROS & CONS OF **SMARTPHONES**

- > Pro: life-management tool; paperless lifestyle; instant communication + entertainment; cashless payment.
- Con: too much reliance on screens; lack of personal communication; decreased attention spans; difficult to keep track of cashless spending



ARTIFICIAL INTELLIGENCE

- → wide range of common uses, e.g. in healthcare or around the home
- Cons: takes away human jobs; dependency on technology; security risks through data collection; dealing with impersonal machines



THE SCIENCE OF DNA

- used for: medical diagnosis; genetic modification; ancestry tracking; forensic science
- → DNA databases: allows tracing of ancestors & family members → can lead to certainty about one's roots or discovery of family; → risk of rejection
- > DNA in crime-solving: identifying perpetrators & eliminating innocent people; solving cold cases
 - → risk of privacy violations; racial bias



GENETIC ENGINEERING

- improvements in agriculture with higher yields & pest resistance; nutritional value can be added; longer shelf life for food Risks: mutations; unnatural additions to ecosystem; farmers become dependent on large companies for seeds
- preventative medicine through genetic testing: disease prevention; personalised medication
- cloning: copies of organisms with beneficial characteristics; also results in less variation → can lead to extinction over time



CREATION OF "DESIGNER HUMANS"

- o future possibility of choosing e.g. hair or eye colour in a child o "shopping" for a baby
- → risks: race of super-humans with discrimination against the disabled; social imbalance; lack of diversity in the human gene pool

IMPORTANT VOCABULARY

ancestors cutting descendents extinction forensic medicine

heart valve |

Vorfahren Steckling Nachfahren Aussterben Gerichtsmedizin

Herzklappe

hereditary to inherit mammal nutritious pest preventative

erblich, vererbbar erben Säugetier nahrhaft

Schädling vorbeugend

to reproduce stem cell research trait weedkiller

yield

sich fortpflanzen Stammzellenforschung Eigenschaft Unkrautvernichtungsmittel